

DUTY STATEMENT			
Classification: Research Scientist II (Epidemiology/Biostatistics)		Position Number: 811-145-5582-001	
Branch/Section: Reproductive & Cancer Hazard Assessment Branch/Safer Alternatives Assessment & Biomonitoring Section			
Location: Sacramento or Oakland		Effective Date:	
Management Designation	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Conflict of Interest
Supervision Received:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Supervision Exercised:
		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Pursuant to Government Code Section 3100-3109, all public employees are declared to be disaster service workers for the protection of the health and safety and preservation of the lives and property of the people of the state from the effects of natural, man-made, or war-caused emergencies. Such emergencies may result in conditions of disaster or extreme peril to life, property, and resources and an appropriate response. This is of paramount importance to the state in protecting its citizens and resources.

POSITION SUMMARY

The Safer Alternatives Assessment and Biomonitoring Section (SAABS) of the Reproductive and Cancer Hazard Assessment Branch in the Office of Environmental Health Hazard Assessment (OEHHA) carries out the following major public health and environmental activities: conducts the legislatively mandated California Environmental Contaminant Biomonitoring Program (CECBP; also known as Biomonitoring California); identifies and assesses emerging environmental contaminants concerns using innovative methods; provides high-level biostatistical support, including conducting complex dose-response assessments under Proposition 65 and assessing exposures and risks associated with fuel-related air pollutants; and providing expert technical assistance to other OEHHA programs and other California agencies, such as the California Air Resources Board (CARB) (support for implementation of the Community Air Protection Program under AB 617; C. Garcia, Chapter 136, Statutes of 2017).

Under general supervision of the Environmental Program Manager I, Chief, SAABS, the Research Scientist II (Epidemiology/Biostatistics) will plan, organize, and carry out epidemiological research of moderate complexity for biomonitoring studies and act as a technical consultant on specific aspects of the studies. The biomonitoring studies are to support the evaluation of chemical exposures of potential health concern in communities identified under AB 617. The Research Scientist II (Epidemiology/Biostatistics) will develop epidemiological study tools for the studies, statistically analyze biomonitoring results, engage with study partners, prepare reports describing biomonitoring findings, and give presentations. The Research Scientist II (Epidemiology/Biostatistics) performs all duties listed below and other related work.

ESSENTIAL FUNCTIONS

- 35% Develop Epidemiological Tools for Biomonitoring Studies.** Design epidemiological study tools for biomonitoring studies in AB 617 communities, including sampling plans, study protocols, and exposure questionnaires. Prepare submission of study tools for approval to the State of California Institutional Review Board (IRB), and other IRBs as required, depending on the collaborating institutions involved in the biomonitoring studies. Act as a technical consultant on the implementation of the study tools.

- 35% Conduct Statistical and Epidemiological Analyses.** Conduct statistical analyses of biomarker results from AB 617 biomonitoring studies to evaluate exposures to chemicals of concern in community residents. Calculate appropriate summary statistics for inclusion in results return packets to study participants. Investigate predictors of chemical levels in participants through epidemiological analyses of

(Attach additional sheet if necessary)

I have read and understood the duties and essential functions of the position and can perform these duties with or without reasonable accommodation:	Date:
Employee Signature:	
I certify that the above accurately represent the duties of the position:	Date:
Supervisor Signature:	
PERSONNEL USE ONLY: This personnel action has been reviewed and approved by:	
Personnel Analyst Signature:	Date: 5/21/2020

exposure questionnaire data and other available exposure information, such as air pollution mapping data. Compare the results of these analyses to other biomonitoring studies in California and the US to determine if AB 617 communities have elevated levels of particular air pollutants.

15% Engage with Biomonitoring Study Partners and Scientific Experts. Identify potential biomonitoring study partners in air districts hosting community air monitoring and emission reduction programs under AB 617. Schedule consultation meetings with these potential partners, such as air district staff, community organizations, and public university researchers. Develop agendas for the consultation meetings, including preparing discussion questions to help achieve the meeting goals.

15% Communicate Biomonitoring Findings. Prepare written reports to summarize biomonitoring findings. Prepare and give verbal presentations to a wide range of audiences, such as community stakeholders and other government agencies, to clearly convey key biomonitoring results for chemicals of concern in AB 617 communities. Give presentations to the Biomonitoring California Scientific Guidance Panel (SGP) to obtain input on biomonitoring study design and implementation. Present biomonitoring findings at scientific conferences to share OEHHA’s work on direct exposure measurements of air pollutants through biomonitoring.

REQUIRED QUALIFICATIONS

Knowledge of:

- Principles of epidemiological research
- Statistical and epidemiological data analysis methods
- Environmental health sciences, including chemical hazard identification and exposure evaluation

Ability to:

- Write complex scientific and technical documents, such as reports, project summaries, and journal articles, to clearly communicate methods, analyses, findings, and recommendations
- Communicate effectively to scientific colleagues, managers, external stakeholders, and the general public
- Deliver oral presentations to audiences with varying levels of scientific understanding

DESIRED QUALIFICATIONS

- Functions well as part of a multidisciplinary team and works cooperatively with external partners
- Committed to ethical scientific research principles
- Dependable in meeting work related responsibilities
- Ability to use statistical software packages (e.g., SAS)

WORKING CONDITIONS

- Office work conducted in cubicle on 16th floor of a high-rise building and off-site work, including telework
- Travel across California for biomonitoring study activities
- Extensive computer use, which involves prolonged sitting, viewing of a monitor, and repetitive motion
- Time-critical assignments
- May be required to travel to other locations for business-related needs as necessary

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